

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830868

Luminaire Tested: **OHBL-90SE-NL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-NL-UNV-L935-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

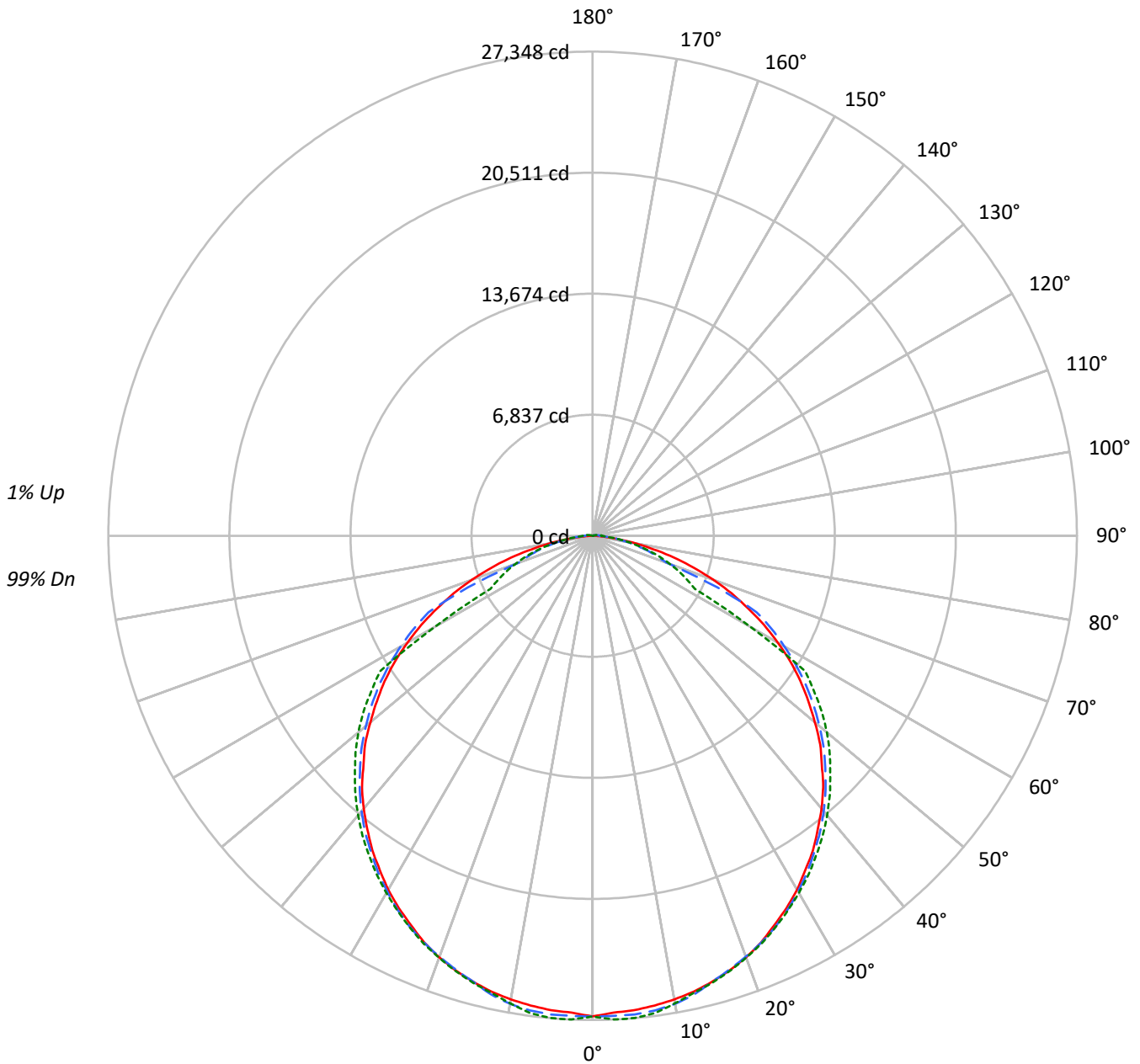
Lumens per Lamp: N/A
Luminaire Lumens: 76221.0 lumens
Efficiency: N/A
Efficacy: 144.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 529
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102					99															
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86					84															
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73					71															
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62					60															
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53					51															
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46					44															
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32					30															
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	42934	42934	42934
5°	42697	43083	43408
10°	42708	43114	43061
15°	42701	42694	42787
20°	42643	42578	42683
25°	42352	42567	42601
30°	42155	42373	42538
35°	41882	42112	42507
40°	41521	41914	42534
45°	40922	41540	42446
50°	40305	41126	42485
55°	39534	40559	42017
60°	38210	39566	32711
65°	36151	38253	22015
70°	33437	20307	21366
75°	29165	19298	20404
80°	22429	17702	18699
85°	11321	17891	18321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2579.1	3.4
10°-20°	7384.8	9.7
20°-30°	11236.6	14.7
30°-40°	13662.2	17.9
40°-50°	14365.1	18.8
50°-60°	13117.1	17.2
60°-70°	8408.7	11.0
70°-80°	3972.1	5.2
80°-90°	1101.4	1.4
90°-100°	291.7	0.4
100°-110°	79.9	0.1
110°-120°	22.1	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	21200.6	27.8
0°-40°	34862.8	45.7
0°-60°	62345.0	81.8
0°-90°	75827.3	99.5
90°-120°	393.7	0.5
90°-150°	393.7	0.5
90°-180°	394.0	0.5
0°-180°	76221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27148	27148	27148	27148	27148	
5°	26895	27000	27138	27286	27343	###
15°	26081	26276	26076	26114	26133	7363
25°	24271	24308	24394	24433	24413	11199
35°	21694	21565	21813	22079	22017	13557
45°	18297	18264	18573	19012	18978	14142
55°	14338	14229	14710	15201	15239	12787
65°	9661	9661	10222	5864	5883	9578
75°	4773	4864	3158	3325	3339	5031
85°	624	791	986	1067	1010	922
90°	0	267	438	519	510	27
95°	14	138	315	424	424	8
105°	24	52	76	76	72	24
115°	24	33	47	33	4	17
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27148.0	27148.0	27148.0	27148.0	27148.0
2.5°	26957.3	27048.1	27148.0	27276.6	27347.7
5°	26895.3	27000.2	27138.4	27286.1	27343.1
7.5°	26762.1	26909.4	27043.1	27148.0	27181.2
10°	26595.2	26771.7	26847.9	26838.3	26814.6
12.5°	26371.3	26557.4	26533.7	26423.7	26442.9
15°	26080.8	26276.0	26076.2	26114.1	26133.2
17.5°	25737.8	25928.5	25695.0	25771.1	25776.2
20°	25337.9	25480.6	25299.6	25361.6	25361.6
22.5°	24856.8	24956.6	24880.5	24923.3	24932.9
25°	24270.7	24308.5	24394.3	24432.6	24413.4
27.5°	23708.9	23661.0	23827.9	23918.2	23870.3
30°	23084.5	23008.4	23203.5	23351.3	23294.3
32.5°	22369.9	22322.5	22546.4	22722.4	22689.1
35°	21693.6	21564.9	21812.6	22079.4	22017.3
37.5°	20893.2	20817.0	21097.9	21379.4	21346.1
40°	20112.0	19983.3	20302.6	20636.0	20602.7
42.5°	19273.7	19120.9	19468.9	19869.4	19831.0
45°	18296.8	18263.6	18573.2	19011.5	18978.2
47.5°	17430.4	17263.5	17696.7	18120.8	18159.2
50°	16381.9	16320.3	16715.7	17230.2	17268.0
52.5°	15358.1	15315.2	15729.3	16248.7	16315.3
55°	14338.3	14228.9	14710.0	15200.7	15239.0
57.5°	13247.9	13133.4	13624.2	14157.7	14238.4
60°	12080.4	11970.9	12509.1	13004.8	10341.9
62.5°	10913.3	10837.2	11399.5	8074.4	6507.5
65°	9660.6	9660.6	10222.4	5863.9	5883.1
67.5°	8489.0	8412.8	7622.0	5268.3	5268.3
70°	7231.2	7259.9	4391.8	4616.2	4620.7
72.5°	5968.8	6073.7	3792.1	3972.7	3982.2
75°	4773.0	4863.8	3158.2	3325.1	3339.2
77.5°	3506.2	2696.2	2538.8	2667.9	2672.5
80°	2462.7	1700.6	1943.7	2067.3	2053.2
82.5°	1438.4	1190.7	1424.2	1515.0	1510.0
85°	623.9	790.8	986.0	1067.2	1009.7
87.5°	199.7	490.7	614.3	662.2	657.2
90°	0.0	266.8	438.3	519.0	509.9
92.5°	0.0	209.3	381.3	476.6	481.1
95°	14.1	138.2	314.7	424.1	424.1
97.5°	9.6	99.9	223.9	333.4	342.9
100°	9.6	80.7	147.8	238.0	243.1
102.5°	23.7	66.6	90.3	152.3	157.4
105°	23.7	52.5	76.2	76.2	71.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.7	38.3	52.5	38.3	4.5
115°	23.7	33.3	47.4	33.3	4.5
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	23.7	47.4	66.6	42.9	14.1
110°	28.7	42.9	57.0	38.3	4.5



(END OF REPORT)